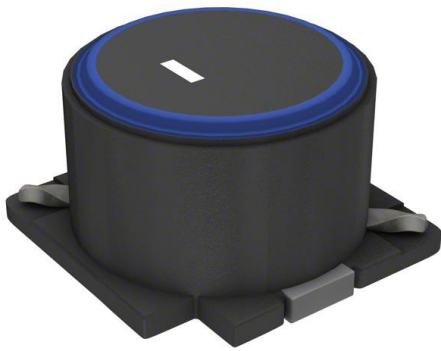


# SLF12575T-330M3R2-H Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	SLF12575T-330M3R2-H-DG
Manufacturer	<a href="#">TDK Corporation</a>
Manufacturer Product Number	SLF12575T-330M3R2-H
Description	FIXED IND 33UH 3.2A 47.4MOHM SMD
Detailed Description	33 $\mu$ H Shielded Drum Core, Wirewound Inductor 3.2 A 47.4mOhm Max Nonstandard



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

**Manufacturer Product Number:**

SLF12575T-330M3R2-H

**Series:**

SLF-H

**Type:**

Drum Core, Wirewound

**Inductance:**33  $\mu$ H**Current Rating (Amps):**

3.2 A

**Shielding:**

Shielded

**Q @ Freq:**

-

**Ratings:**

AEC-Q200

**Inductance Frequency - Test:**

1 kHz

**Package / Case:**

Nonstandard

**Size / Dimension:**

0.492" L x 0.492" W (12.50mm x 12.50mm)

**Manufacturer:**

TDK Corporation

**Product Status:**

Not For New Designs

**Material - Core:**

Ferrite

**Tolerance:** $\pm$ 20%**Current - Saturation (Isat):**

3.2A

**DC Resistance (DCR):**

47.4mOhm Max

**Frequency - Self Resonant:**

-

**Operating Temperature:**

-40°C ~ 125°C

**Mounting Type:**

Surface Mount

**Supplier Device Package:**

-

**Height - Seated (Max):**

0.309" (7.85mm)

## Environmental & Export classification

**RoHS Status:**

ROHS3 Compliant

**REACH Status:**

REACH Unaffected

**HTSUS:**

8504.50.8000

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)

**ECCN:**

EAR99

Discontinue Issue Date	Last Purchase Order Date	Last Shipment Date
May.14, 2024	March.31, 2026	December.31, 2026

FIXED IND 33UH 3.2A 47.4MOHM SMD  
\* Please refer to our Web site about replacement information.

# INDUCTORS



Inductors for power circuits  
Wound ferrite  
SLF-H series (for automotive)



AEC-Q200

## SLF12575-H type



### FEATURES

- Magnetic shield type wound inductor for power circuits.
- Product lineup allows for various usages.
- Operating temperature range: -40 to +125°C (including self-temperature rise)

### APPLICATION

- Automotive-related equipment (ECM, airbags, headlights, electronic power steering, meters, ABS, other)

### PART NUMBER CONSTRUCTION

SLF	12575	T	-	1R2	N	8R2	-	H
Series name	LxWxH dimensions 12.5x12.5x7.5 mm	Packaging style		Inductance (μH)	Inductance tolerance	定格? 流 (A)		Internal code

### CHARACTERISTICS SPECIFICATION TABLE

L	L Measuring frequency		DC resistance	Rated current*			Part No.
	(μH)	Tolerance		(kHz)	Isat (A) max.	Isat (A) typ.	
1.2	±30%	1	5.1m±20%	13	27	8.2	<a href="#">SLF12575T-1R2N8R2-H</a>
2.7	±30%	1	7.4m±20%	10	17	7	<a href="#">SLF12575T-2R7N7R0-H</a>
3.9	±30%	1	10.4m±20%	9	14	6.7	<a href="#">SLF12575T-3R9N6R7-H</a>
5.6	±30%	1	11.6m±20%	7.8	12	6.3	<a href="#">SLF12575T-5R6N6R3-H</a>
6.8	±30%	1	13.1m±20%	7.2	11	5.9	<a href="#">SLF12575T-6R8N5R9-H</a>
10	±20%	1	15.6m±20%	5.5	9.1	5.4	<a href="#">SLF12575T-100M5R4-H</a>
15	±20%	1	18.4m±20%	4.7	7.6	5	<a href="#">SLF12575T-150M4R7-H</a>
22	±20%	1	26.3m±20%	4	6.2	4	<a href="#">SLF12575T-220M4R0-H</a>
33	±20%	1	39.5m±20%	3.2	5.1	3.4	<a href="#">SLF12575T-330M3R2-H</a>
47	±20%	1	52.8m±20%	2.7	4.2	3	<a href="#">SLF12575T-470M2R7-H</a>
68	±20%	1	77.8m±20%	2	3.4	2.4	<a href="#">SLF12575T-680M2R0-H</a>
100	±20%	1	0.125±20%	1.9	2.8	1.9	<a href="#">SLF12575T-101M1R9-H</a>
150	±20%	1	0.175±20%	1.5	2.3	1.6	<a href="#">SLF12575T-151M1R5-H</a>
220	±20%	1	0.258±20%	1.3	1.9	1.3	<a href="#">SLF12575T-221M1R3-H</a>
330	±20%	1	0.34±20%	1	1.6	1.1	<a href="#">SLF12575T-331M1R0-H</a>
470	±20%	1	0.60±20%	0.8	1.3	0.8	<a href="#">SLF12575T-471MR80-H</a>

\* Isat(max.): When based on the inductance change rate (10% below the initial value)  
Isat(typ.): When based on the inductance change rate (30% below the initial value)  
Itemp: When based on the temperature increase (temperature increase of 40°C by self heating)

#### Measurement equipment

Measurement item	Product No.	Manufacturer
L	4194A	Keysight Technologies
DC resistance	VP-2941A	Panasonic
Rated current Isat	4284A+42841A+42842C	Keysight Technologies

\* Equivalent measurement equipment may be used.



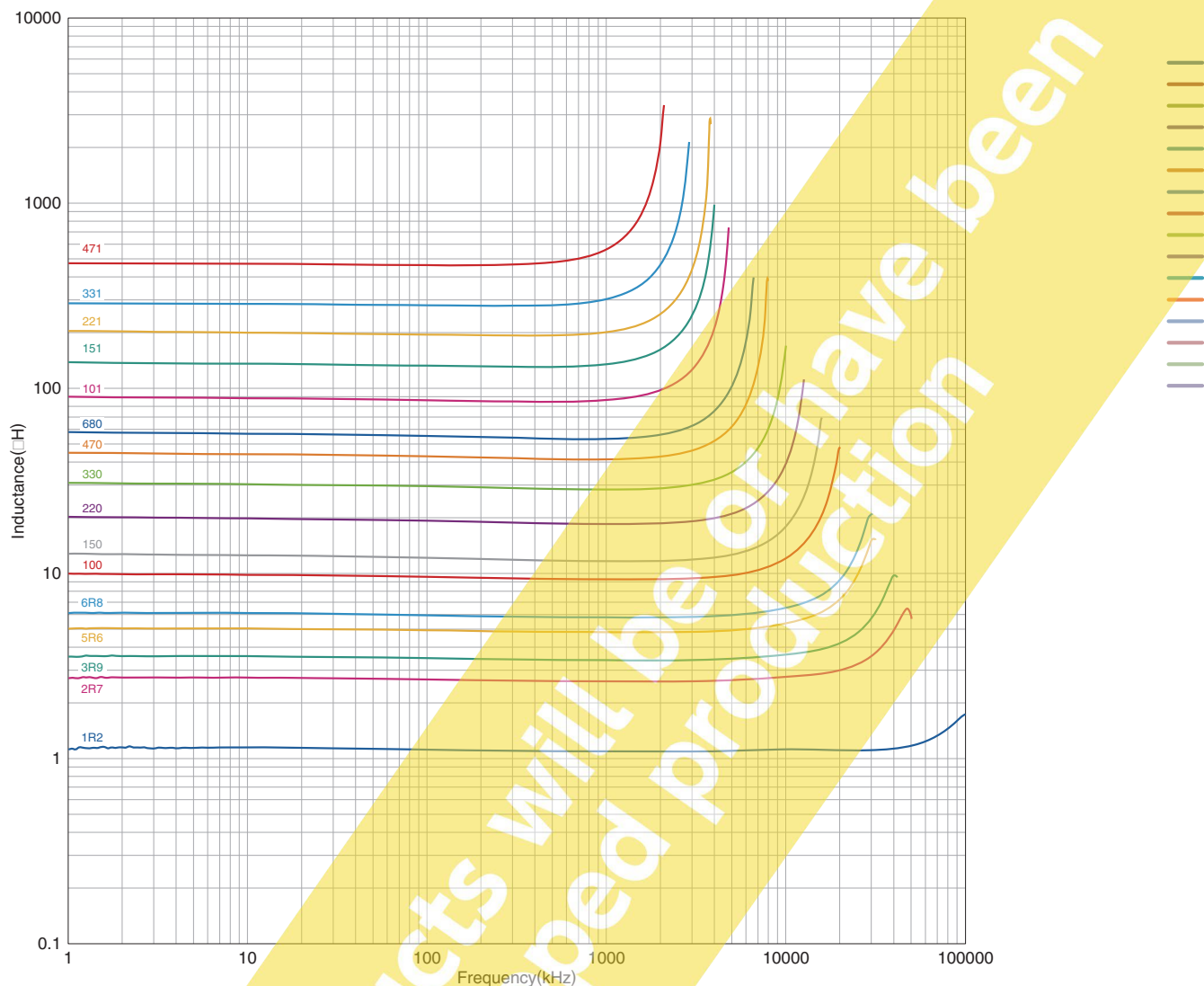
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. (1/5)  
Please note that the contents may change without any prior notice due to reasons such as upgrading.

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inductor\_automotive\_power\_slf12575-h\_en

# SLF12575-H type

## L FREQUENCY CHARACTERISTICS



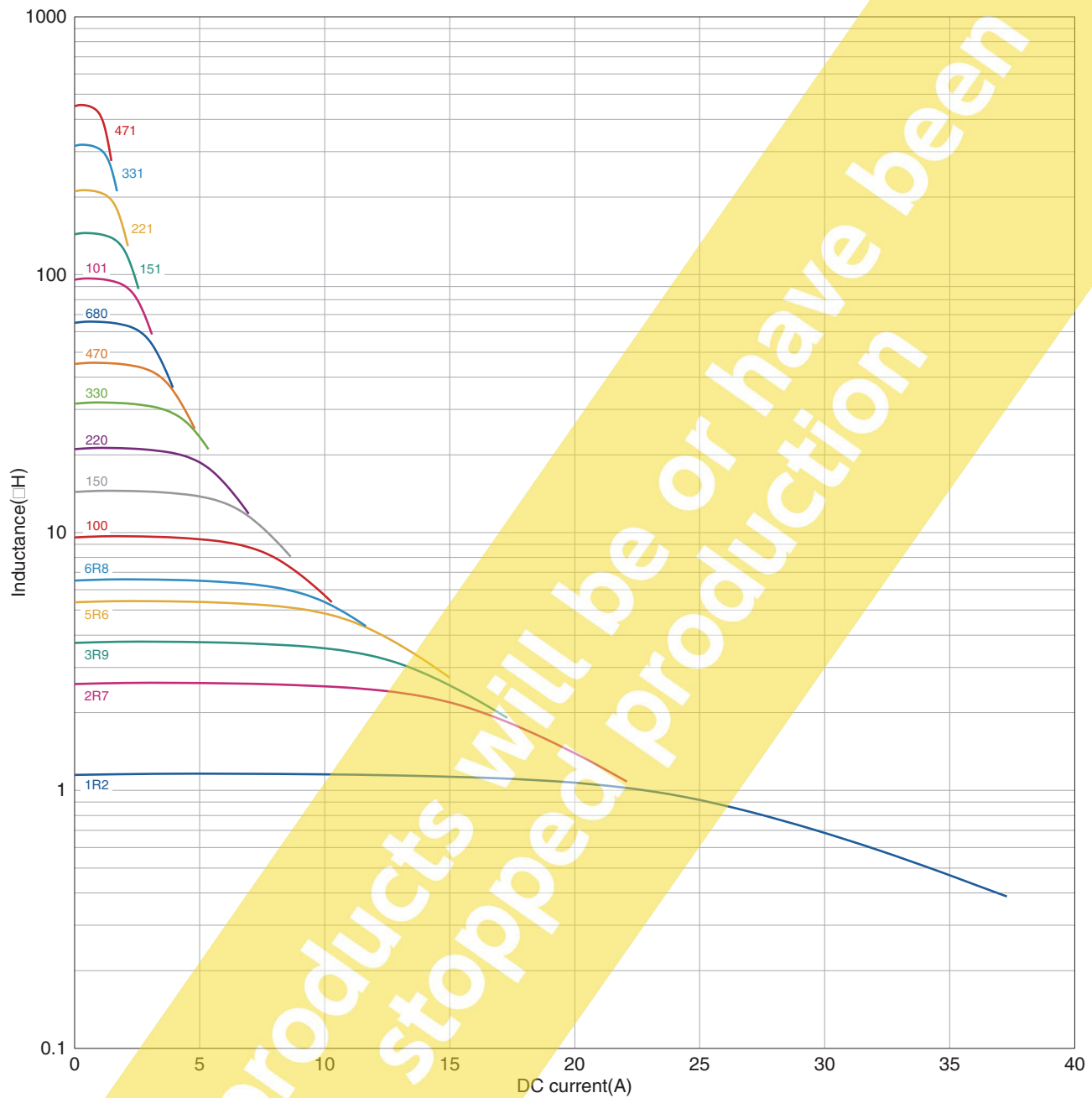
### Measurement equipment

Product No.	Manufacturer
4294A	Keysight Technologies

\* Equivalent measurement equipment may be used.

## SLF12575-H type

## INDUCTANCE VS. DC BIAS CHARACTERISTICS



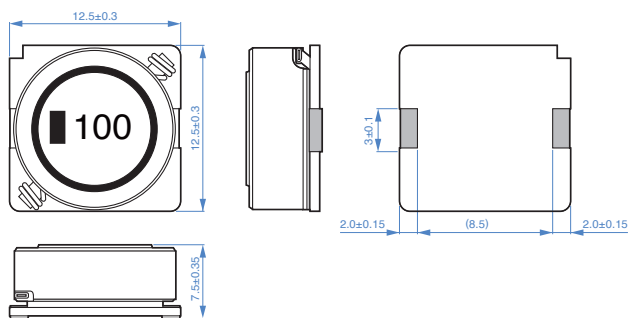
## Measurement equipment

Product No.	Manufacturer
4284A+42841A+42842C	Keysight Technologies

\* Equivalent measurement equipment may be used.

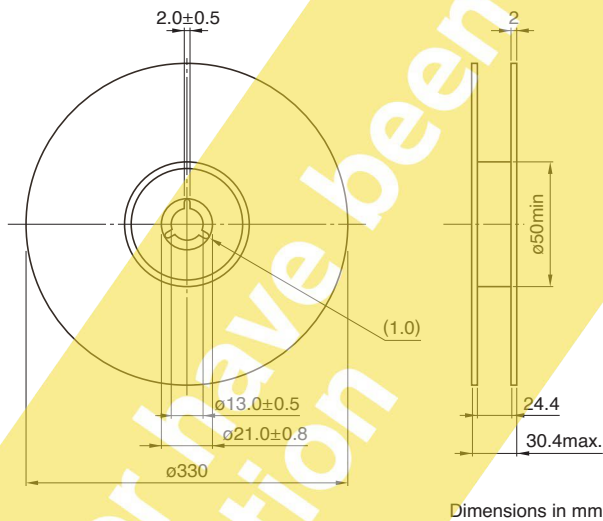
# SLF12575-H type

## SHAPE & DIMENSIONS

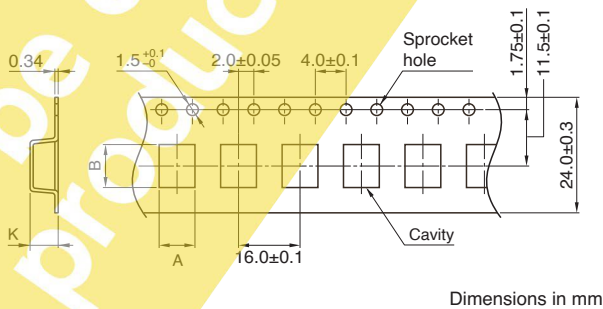


## PACKAGING STYLE

### REEL DIMENSIONS



### TAPE DIMENSIONS



## RECOMMENDED LAND PATTERN

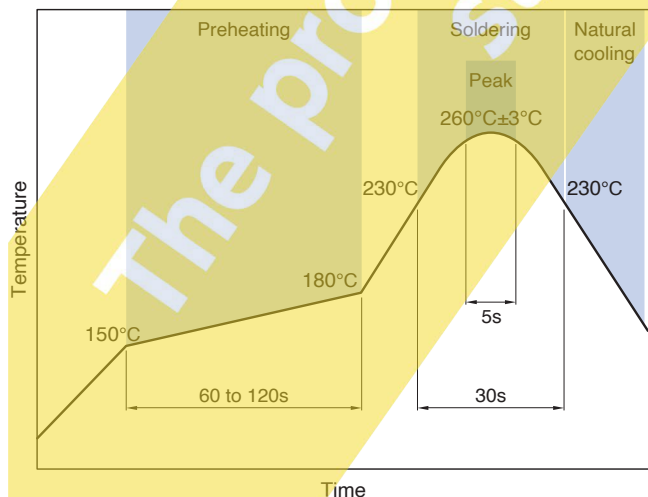


Type	A	B	K
SLF12575-H	13	13	8

### PACKAGE QUANTITY

Package quantity	500 pcs/reel
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## RECOMMENDED REFLOW PROFILE



## TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight
-40 to +125 °C	-40 to +125 °C	3.6 g

\* Operating temperature range includes self-temperature rise.  
 \*\* The storage temperature range is for after the assembly.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

## REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

### SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products

### REMINDERS

- The storage period is within 6 months. Be sure to follow the storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH or less).  
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.  
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.  
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.  
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.  
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.  
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment

- (7) Transportation control equipment
- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

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